

## EAST Search History

| Ref # | Hits | Search Query  | DBs                                       | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S1    | 1332 | 73/38   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/05/22 08:31 |
| S2    | 133  | S1 and (radiation radioactiv\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/05/18 17:24 |
| S3    | 14   | ("3286509"   "3580067"  <br>"3590634"   "3937649"   "3999066"<br>  "4656865"   "4663969"  <br>"4965450"   "5159829"   "5390539"<br>  "6119506"   "6358570"  <br>"6413645").PN. OR ("6804989").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR              | OR               | ON      | 2006/05/18 17:26 |
| S4    | 33   | ("3498110"   "3561254"  <br>"3590634"   "3618361"   "3844940"<br>  "3976450"   "4036915").PN. OR<br>("4656865").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR              | OR               | ON      | 2006/05/18 17:32 |
| S5    | 13   | ( "3286509" or "3580067" or<br>"3590634" or "3937649" or<br>"3999066" or "4663969" or<br>"4965450" or "5159829" or<br>"6119506" or "6358570" or<br>"6413645" or "20030074954" ).pn.                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/05/22 08:32 |
| S6    | 6    | S5 and (radia\$6 or radioactive)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/05/22 09:09 |
| S7    | 22   | "3498110"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/05/22 14:08 |
| S9    | 627  | beta with radiation with (detect<br>detection monitor)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/05/22 14:08 |
| S11   | 103  | beta with radiation with (detect<br>detection monitor) and (permea\$8)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/05/22 14:30 |
| S12   | 1    | "4656865".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/05/22 14:30 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S13 | 5    | (US-20050167598-\$).did. or<br>(US-6804989-\$ or US-5390539-\$ or<br>US-3999066-\$).did. or<br>(US-3498110-\$).did.   | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON | 2006/05/22 14:34 |
| S14 | 14   | ("3286509"   "3580067"  <br>"3590634"   "3937649"   "3999066"<br>  "4656865"   "4663969"  <br>"4965450"   "5159829"   "5390539"<br>  "6119506"   "6358570"  <br>"6413645").PN. OR ("6804989").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON | 2006/05/22 14:37 |
| S15 | 13   | ( "3286509" or "3580067" or<br>"3590634" or "3937649" or<br>"3999066" or "4663969" or<br>"4965450" or "5159829" or<br>"6119506" or "6358570" or<br>"6413645" or "20030074954" ).pn.                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/22 16:36 |
| S18 | 1    | S15 and methane   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/22 16:38 |
| S19 | 7    | "5390539"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/22 16:43 |
| S20 | 6    | (US-20050167598-\$).did. or<br>(US-6804989-\$ or US-5390539-\$ or<br>US-3999066-\$ or US-6532797-\$).<br>did. or (US-3498110-\$).did.   | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON | 2006/05/22 17:02 |
| S21 | 3    | (S15 or S20) and humidity with<br>constant  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/22 17:16 |
| S22 | 1332 | 73/38   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/22 17:16 |
| S23 | 13   | (S15 or S20) and humidity   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/22 17:48 |
| S24 | 10   | S23 not S21   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/22 17:16 |
| S25 | 3    | (S15 or S20) and polymeric  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/05/23 08:16 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S26 | 1    | "20020152800".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | OR | ON | 2006/05/23 08:17 |
| S27 | 1332 | 73/38   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | OR | ON | 2006/05/23 08:22 |
| S28 | 67   | S27 and (poros\$5 permeab\$6) with (seal adhesive)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | OR | ON | 2006/05/23 08:25 |
| S29 | 18   | ("20010034063"   "20030014205"   "4326514"   "4822743"   "4848138"   "4987849"   "5001346"   "5009218"   "5047947"   "5128106"   "5323774"   "5447688"   "5449912"   "5926262"   "5951909"   "5963881"   "6259370"   "6622059").PN. OR ("6993956"). URPN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/05/23 09:08 |
| S30 | 1    | radioactive with absorption with device same gas with stream  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/05/23 09:10 |
| S31 | 19   | (radioactive radiation) with (absorption removal) with device same gas with stream  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/05/23 09:45 |
| S32 | 3429 | (radioactive radiation) with (porosity permeability)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/23 09:46 |
| S33 | 371  | (radioactive radiation) with (porosity permeability) near5 (measure\$6 monitor\$4 detect\$6 determin\$6 calculat\$6 calibrat\$6 sens\$4 test\$4 gauge\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/23 09:47 |
| S34 | 999  | (radioactive radiation) with (porosity permeability) and (porosity permeability) near5 (measure\$6 monitor\$4 detect\$6 determin\$6 calculat\$6 calibrat\$6 sens\$4 test\$4 gauge\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/23 09:47 |
| S35 | 14   | S33 and (water near3 vapor or carbon) with (permea\$8 or poros\$5)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/23 09:49 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S36 | 288 | S34 and (water near3 vapor or carbon) with (permea\$8 or poros\$5) and (film sheet polymer)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/23 09:51 |
| S37 | 71  | S34 and (water near3 vapor or carbon) with (permea\$8 or poros\$5) and (film sheet polymer) not ("166").clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/23 09:51 |
| S38 | 12  | (US-20050167598-\$ or US-20020152800-\$).did. or (US-6804989-\$ or US-5390539-\$ or US-3999066-\$ or US-6532797-\$ or US-6413645-\$ or US-4663969-\$ or US-6477888-\$ or US-4049405-\$ or US-5449912-\$).did. or (US-3498110-\$).did. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/05/23 10:29 |
| S39 | 0   | S37 and purge near5 gas   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | OR | ON | 2006/05/23 10:30 |
| S40 | 0   | S37 and purge   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | OR | ON | 2006/05/23 10:31 |
| S41 | 35  | S37 and clean   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | OR | ON | 2006/05/23 10:30 |
| S42 | 4   | S38 and purge   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | OR | ON | 2006/05/23 11:46 |
| S43 | 56  | radioactive with carbon near2 monoxide  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | OR | ON | 2006/05/23 11:49 |
| S44 | 790 | (radioactive radiation) with carbon near2 monoxide not S43  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | OR | ON | 2006/05/23 11:49 |
| S45 | 354 | (radioactive radiation) with carbon near2 monoxide not S43 and ("73").clas. or porosity or permea\$7)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | OR | ON | 2006/05/23 11:51 |
| S46 | 13  | (radioactive radiation) with carbon near2 monoxide not S43 and ("73").clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO             | OR | ON | 2006/05/23 12:32 |

## EAST Search History

|     |    |  |                              |    |    |                  |
|-----|----|--|------------------------------|----|----|------------------|
| S47 | 12 | (US-20050167598-\$ or<br>US-20020152800-\$).did. or<br>(US-6804989-\$ or US-5390539-\$ or<br>US-3999066-\$ or US-6532797-\$ or<br>US-6413645-\$ or US-4663969-\$ or<br>US-6477888-\$ or US-4049405-\$ or<br>US-5449912-\$).did. or<br>(US-3498110-\$).did. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/05/23 12:35 |
| S48 | 14 | ("3286509"   "3580067"  <br>"3590634"   "3937649"   "3999066"<br>  "4656865"   "4663969"  <br>"4965450"   "5159829"   "5390539"<br>  "6119506"   "6358570"  <br>"6413645").PN. OR ("6804989").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/05/23 12:36 |